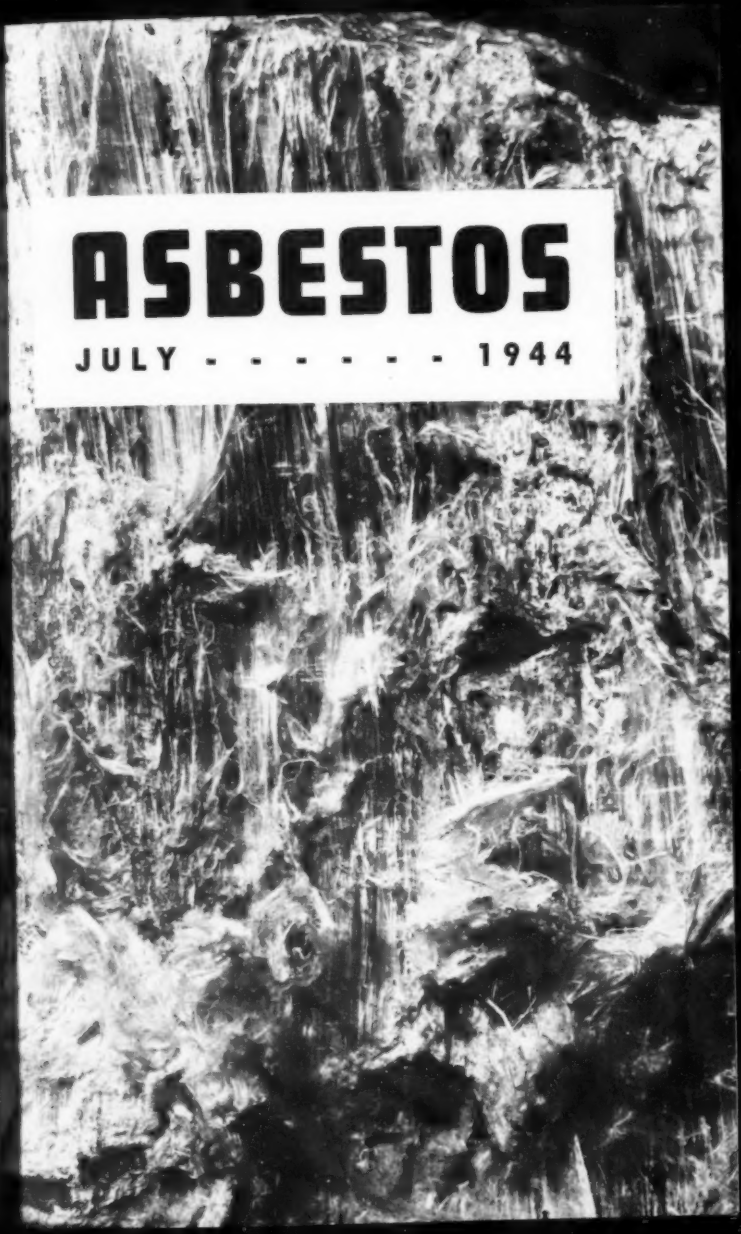
ASBESTOS

JULY - - - - - - 1944



ASBESTOS TEXTILES

"END USE"

IT'S THE "END USE" OF ASBESTOS PRODUCTS THAT REALLY COUNTS. A CLUTCH FACING HELPS THE WAR EFFORT WHEN IT REACHES ITS "END USE" . . . WHEN IT BECOMES AN INTEGRAL PART OF AN ARMY TRUCK OR A JEEP. A PIECE OF BRAKE LINING ATTAINS ITS "END USE" WHEN IT PROVIDES SMOOTH, DEPENDABLE STOPPING ACTION ON A TANK, A HALF-TRACK OR A CAR. THE PROTECTIVE INSULATION FOR WIRING IN A BATTLESHIP IS THE "END USE" OF ASBESTOS ROVING MADE WITH THE PROPER SELECTION OF FIBER. IN RESEARCH AS WELL AS IN SETTING UP STANDARDS FOR MANUFACTURING, **RAYBESTOS-MANHATTAN** KEEPS THE "END USE" ALWAYS IN VIEW.

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INDUSTRIAL SALES DIVISION
FACTORIES
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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE
BY SECRETARIAL SERVICE
17th FLOOR INQUIRER BUILDING
PHILADELPHIA, 30, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*
A. S. ROSSITER, *Editor*

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MIRACLES

Somewhere the other day we read:

> "A barrel of oil can be made to yield a higher quality of gasoline than it normally contains—the less desirable elements being reformed to the chemist's needs."

It made us pause—what does it mean? Literally, to get out of a material something which isn't there in the first place! A miracle, no less.

And there are literally thousands of such miracles going on today. Of some the public has been informed; many others it knows nothing about—as yet. Some will be kept secret until after the war; some will be used in the war and later converted to peacetime projects. We are promised all sorts of new products and new gadgets after the war and many of these are the result of miracles of science and of chemistry.

It is, in fact the chemist's *job* to perform miracles and he is performing them daily, with the result that while they may be used at present to frustrate an enemy, later they may be put to peacetime use and make life more comfortable, more enjoyable or more interesting.

And the ordinary American citizen takes all of them as a matter of course. Down in my cellar is a white enamel cylinder which encloses what is called a tank. It is connected with the water system in the house and the electrical system. It needs no attention, whatever. It makes absolutely no noise. No one is conscious of its being there but at the turn of a handle (spigot) upstairs hot water gushes out. I look at it sometimes with awe—just a modern mircale. Those familiar with electricity and with plumbing can explain it no doubt, but to the ordinary layman it is just a plain miracle, that so silent, immobile and lifeless a thing could day after day, week after week, supply hot water at a moment's call.

There are others surrounding us all day and every day of which we never think because they are so familiar to us. But bring to the modern American house an in-

habitant of some far away South Pacific Island and we doubt whether he could even be induced to enter.

In fact this is an age of miracles—but they should be put to the right use or, like the pilotless plane, they will destroy us.

INSULATION INSPECTION

A slogan used by the manufacturers of many articles and products is "install it and forget it." The salesman is asked to stress the idea that the article will function apparently forever with no attention whatever.

This is a real selling point in many instances, and can be followed almost literally; witness the installations of asbestos cement shingles and sidings.[1]

It is decidedly not a selling point for insulation, however.

Not long ago a rather prominent publication stated that pipe insulation should be inspected at frequent intervals "*contrary to the practice of many years.*" An engineer in the employ of a large manufacturer of insulation was asked what he thought of such a statement. Would not industrial plants, especially large ones, see to it that the insulation on its pipes and boilers was frequently gone over and proper repairs made? His reply was that pipe covering is lucky if it gets any inspection at all and if the statement referred to induced readers to have their heating plant and its pipes looked over once a year that was so much gain.

There is no such thing as too frequent inspection of insulation. The things which can happen to insulation in industrial plants are legion and most of them decrease the efficiency of the heating plant, or, what is equally disastrous, especially at the present time, increase the consumption of fuel, to say nothing of the waste which adds up to real dollars and cents.

The Fuel Efficiency Program, sponsored by the National Fuel Efficiency Section of the U. S. Bureau of Mines (see page 3 of June 1944 "ASBESTOS") is built around this idea. Frequent inspection and repair save fuel.

[1] See January 1944 "ASBESTOS", page 32.

THE COVER, FOR OUR 26TH VOLUME

The new cover begins our 26th Volume. It depicts a piece of very fine Canadian Crude, the specimen from which the photograph was made having been provided by the Keasbey & Mattison Company. The specimen was taken from the Bell Asbestos Mine in Thetford.

"ASBESTOS" has tried in the past twenty-five years to keep the Asbestos Industry informed of asbestos happenings. How well we have succeeded in this very interesting endeavor is told by the many letters of commendation received.

Our constant effort is to improve the magazine; you readers can help us by telling us what sort of information you find most interesting and most helpful, and by sending us constantly news of your companies, your associates and yourselves.

Ideas, opinions, comments and criticism are always welcome.

And ask us for special information on asbestos subjects—that is another way "ASBESTOS" can be of service.

THE INVASION AND ASBESTOS

Description of the LCR (landing craft, rockets) used with such great success by the Allies in the European invasion, states that the contrivance is controlled from an asbestos and steel (asbestos-cement board and steel we assume) shelter on the stern.

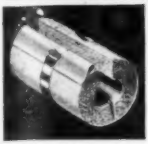
Of course asbestos was used in hundreds of ways in invasion equipment, but this particular instance of its use is especially interesting because it has not been specifically mentioned before.

The article also states that the operator is clad in fireproof clothing which undoubtedly is asbestos clothing.

. . . —

BACK THE ATTACK — BUY MORE BONDS THAN BEFORE

Carey HEAT INSULATIONS



Careycel—For temperatures up to 300° F.

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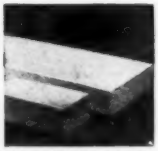

Hi-Temp Blocks—For Furnaces, Ovens, Kilns, etc.

In addition to the insulations shown, Carey makes other Asbestos Specialties—as Plastic and Dry Refractory Cements, Asbestos Paper, Asbestos Millboard, Asbestos Packings, Asbestos Cements, Flat and Corrugated Sheathing, Careystone Asbestos-Cement Shingles and Siding, Asbestos Fibre.

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Made of Asbestos Fibre—combines both duct and insulation. Simple slip-joint construction and standardized parts provide easy and rapid fitting on job.

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CATALYTIC CRACKING AND ASBESTOS

By F. N. Hollingsworth

One of the many fluid catalyst cracking plants erected in various parts of the country, is the new one of the Standard Oil Company of New Jersey at its Bayway, N. J. refinery.

Catalytic cracking is the new method of refining petroleum, which yields the 100 octane gasoline so badly needed by our air forces, because of the greatly stepped up power of airplane engines and the increased speed of the planes. This type of gasoline, which is not produced by the enemy, gives our fighting planes an edge over theirs.

The cracking process for obtaining better motor gasoline has been used for some years; the catalytic process is a big improvement on the older methods and is used to obtain aviation gasoline of the high octane rating of 100 or better. Some, in fact, is produced with a far higher rating, but there is very little of this as yet, and none of the high octane ratings are available for civilian use. All the 100 octane gasoline goes to the air services.

A few years ago 100 octane gas was so scarce that samples cost $20.00 a gallon. It is now being produced by the catalytic plants in tank car lots and production will soon be above five million gallons daily. Even this vast quantity will not be any too much with great fleets of bombers and fighting planes swarming over Europe daily. One of the big Flying Fortresses alone is said to require 3,000 gallons for one round trip.

Forty-one major 100 octane fluid catalytic cracking plants are scattered strategically over the country. These represent about 35 per cent of the 100% increase in the production of aviation fuel since Pearl Harbor. There are miles and miles of piping in each plant, not all of which is insulated however, since some of this is small interior process piping.

The fluid catalytic process was developed by the Standard Oil Company of New Jersey and made available

ASBESTOS

in the all-out drive for Victory

In every important war industry and in the production of almost every vital unit of military or naval equipment one or more of Johns-Manville's 1200 products is being used. Twenty-four hours a day, seven days a week they are pouring forth from the J-M factories . . . helping to hasten the ultimate victory that will assure the continuation of the free way of life that has made America great.

Johns-Manville owns and operates Asbestos Mines in Arizona and Canada, fifteen factories located strategically across the continent, sales offices in all large cities and a large, scientifically equipped research laboratory in which J-M Engineers and Scientists are constantly developing new uses for this remarkable mineral, Asbestos.

For complete information on J-M Asbestos Products or raw asbestos in a wide range of grades and fiber lengths, write to any J-M office or distributor.

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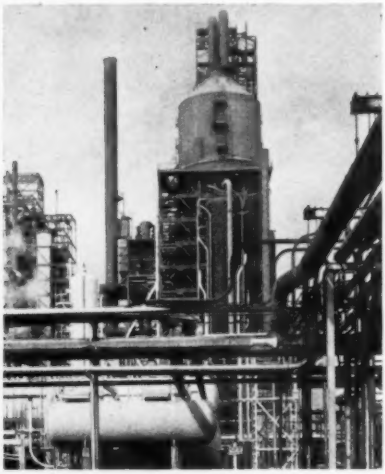
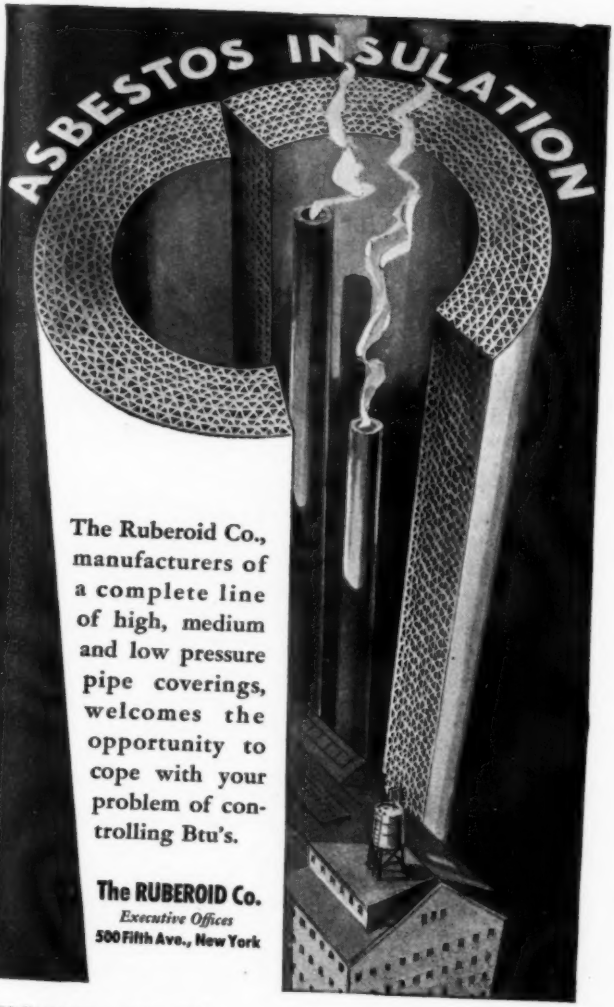
to other companies to help in the prosecution of the war. It makes possible production of needed quantities of the high octane gasoline without requiring the addition of an excessive amount of crude petroleum production and affords opportunity to use several varieties of petroleum.

What is a catalyst? Ipatieff, a world authority, says nobody knows exactly. It seems to be a polymerization, or stringing together of molecules, not in a straight line, but compacted or bunched, one on top of the other. High octane gasoline is a blend of several products from petroleum. It consits of a high quality regular aviation gasoline together with several blending agents, plus tetra ethyl lead. Today turbo-superchargers and modern airplane engine design have so raised the potentialities of airplane motors that 100 octane gasoline no longer represents the perfect fuel.



One of the Catalyst Cracking Plants of the Standard Oil Co. of New Jersey

There are many steps in the fluid catalyst cracking process. The catalyst is a clay-like material—for some operations a natural clay, for others a synthetic clay. This clay-like mtaerial, is employed in an aerated powder form to mingle with the original oil to help separate or crack it into its various components, which vary with different grades of petroleum and the area from which it came. These parts consist of several gases or vapors,—light naptha, a gasoline fraction, heavy fractions useful for fuel oils and



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some carbonaceous material. The main part of the cracking is done first by combined heat and pressure.

The resultant products are then fractionated and the gasoline fraction, possessing a high octane rating, is used as a base stock for 100 octane fuel. By combining alkylation with the fluid catalyst process more 100 octane can be obtained thru conversion of the vapors formed in the cracking step. Hydrofluoric acid, one of the most powerful chemicals known, is the alkylation agent or reactor. This acid is so powerful that it has to be stored in lead or wax containers and is obtained from the mineral fluorspar.

A blending agent, known as aviation alkylate, is added to the alkylated gasoline to increase volume and raise the octane rating. The finished product consists of the cracked gasoline base, isopentane (added to adjust volatility) sometimes other agents for special properties, lead tetra ethyl, an oxidization inhibitor and a dye. The composition of the gasoline may be varied and the cracking process modified according to need.

The Bayway, N. J., plant, mentioned in the first paragraph, has some 23,000 feet of piping insulated with 85% Magnesia and 8,000 feet of high temperature insulation. These insulation materials are of Johns-Manville and Ruberoid manufacture.

Block insulation was utilized for insulating the various vessels and exchangers. This insulation includes approximately 20,000 square feet of high temperature blocks, 24,000 square feet of 85% Magnesia blocks and 14,000 square feet of rockwool blocks. Seventy-five tons of insulating cement of Johns-Manville and Ruberoid manufacture were also used. Approximately 1,000 rolls of pipe jacketing and 25,000 pounds of waterproof coating for vessels were furnished by Johns-Manville. The regenerator vessel is internally lined with A. P. Green insulating firebrick. Estimated total weight of all insulating materials mentioned is 500 tons. The quantities given apply, generally speaking, to all similar catalyst cracking plants, quantities varying with the size of the plant, footage of piping and number of vessels and exchangers.

Costs of the catalytic process vary according to the

Manufacturers of a complete line

ASBESTOS-CEMENT SHINGLES	ASBESTOS-CEMENT SIDING
ASBESTOS-CEMENT WALLBOARDS	ASBESTOS MARINE INSULATIONS
ASBESTOS ELECTRICAL MATERIALS	ASBESTOS-CEMENT PIPE
ASBESTOS AND MAGNESIA PIPE AND BLOCK INSULATION	ASBESTOS PAPER & MILLBOARD
	ASBESTOS TEXTILES
ASBESTOS PACKINGS	ASBESTOS LUMBER
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KEASBEY & MATTISON COMPANY, AMBLER, PENNA.

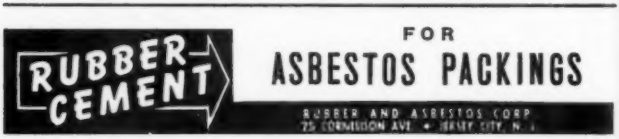
size of the plant. Huge sums have been invested in the 41 catalytic plants of the country. One Baltimore plant of Standard Oil Company of New Jersey cost $14,000,000; 2,500,000 man hours were required to build it; 16,500 tons of steel and 100 miles of piping were used.

Out on the West Coast construction is being speeded on a huge new plant by the Union Oil Company. Completed, it is expected to cost $40,000,000, every cent of which was advanced by the company. It will be the largest refinery of its kind in the country. Practically all of its piping, which amounts to many, many miles with little or none underground, is insulated and weather protected. More miles of insulation are used inside the plant. Just how much would require the time of several engineers and clerks to compute and the staff is too busy at present, under wartime conditions, to undertake such an estimate, but not a drop of crude oil to be processed will be wasted.

Large quantities of products other than the 100-octane gas are to be made in the refining process—special Navy fuel oils, diesel oils, and feeder stock from which various critical materials such as toluene will come. The entire plant occupies thirty acres, meaning such a huge engineering job that no one can wonder why getting ready to bomb Tokio is not an overnight matter.

A. S. T. M.

Nomination for president of the American Society for Testing Materials, for 1944-1945 has been announced and official notice of election was given at the Tenth Session of the 47th A. S. T. M. annual meeting, on Wednesday, June 28th. The man—P. H. Bates, Chief, Clay & Silicate Products Division, National Bureau of Standards, Washington, D. C. Mr. Bates has been chairman of the A. S. T. M. Committee C-1 on Cement since 1926 and has been active in other Society work.



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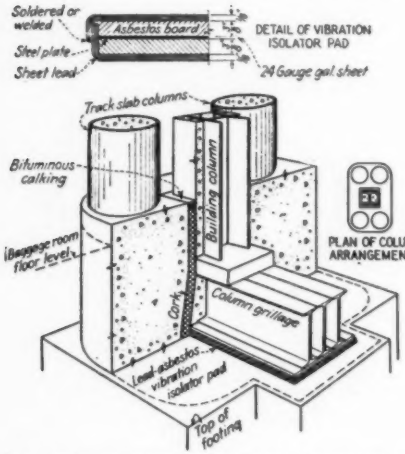
LEAD-ASBESTOS VIBRATION PADS[1]

The New Central Station of the Canadian National Railways at Montreal is the latest large railway passenger terminal to be built on the North American Continent. Planned thruout with great care to provide maximum accessibility to both streets and trains it is laid out as a main concourse over the tracks with separate stairways leading down to the respective train platforms. The baggage and express handling areas are on a third level below the tracks thus providing complete service to the traveling public on a minimum ground area.

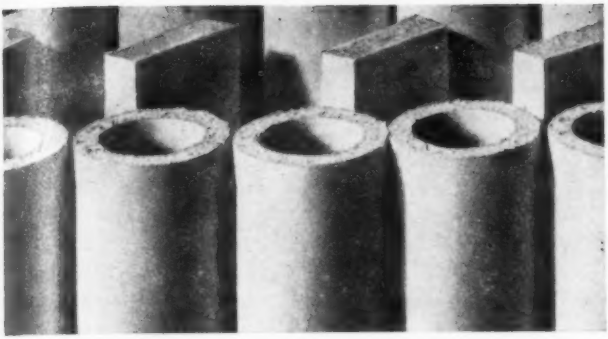
Since almost the entire building is directly over the main tracks it was necessary for the architect to isolate



Detail of installation of lead-asbestos vibration isolation pads in the Montreal station.

the main structure against vibration created by the moving trains. This isolation was accomplished by the use of lead-asbestos anti-vibration pads under each of the structural steel building columns which were ingeniously

[1] Reprinted by permission of "Lead", house organ of the Lead Industries Association, 420 Lexington Ave., New York 17, N. Y.



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"THE DEPENDABLE STANDARD—MODERNIZED

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COMPLETE RANGE OF SIZES AND THICKNESSES IN BLOCKS AND PIPE COVERINGS
(In sectional form up to and including 18-inch pipe size.)

grouped with steel encased concrete columns supporting the track slab.

The lead-asbestos pad is composed of two sheets of asbestos board separated by a thin steel plate and enclosed in a sealed envelope of sheet lead. Its effectiveness as a vibration damper is due to the resistance to transmission of vibration thru dissimilar materials in contact. The lead envelope being sealed, also protects the other materials from moisture and deterioration and assures a long effective life to the assembly.

The accompanying sketch shows how the lead-asbestos pad installed under the structural column grillage made possible the use of one set of footings to support both the building and the tracks without transmitting dangerous vibration.

This type of vibration isolation has been used for many years by railroads and in buildings adjacent to railroads. It has also been used under heavy machinery such as printing presses and rubber mills. Its relatively high compressive strength and great resistance to moisture and corrosion makes it especially effective where a permanent vibration resistant foundation for heavy loads must be provided.

. . . —

The great majority of the strategic and critical raw materials, commodities and foodstuffs purchased by the United States Government abroad are now handled by a single Government corporation—the United States Commercial Company, acting in its capacity as the agent of the Foreign Economic Administration. As we understand it the U. S. Commercial Company replaces the Metals Reserve Company, the Defense Supplies Corporation and other agencies of a similar sort. A complete description of the United States Commercial Company and its operations was published in the June 24th issue of Foreign Commerce Weekly, published by the U. S. Dept. of Commerce, Washington, D. C.

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MARKET CONDITIONS

GENERAL BUSINESS

It hardly seems possible that a month has gone by since D-day. D-day when, despite the German boastings of their fortification of the French Coast, the Allied Armies obtained and held the beachhead, and have since advanced slowly but surely, with less loss of equipment and of men than had been feared.

This, however, is not a discussion of military affairs but merely a forerunner of the statement that war news affects general business—all business—in a myriad of ways, some good, some bad, and it is quite impossible therefore to give any adequate idea of the present status of business in a few paragraphs.

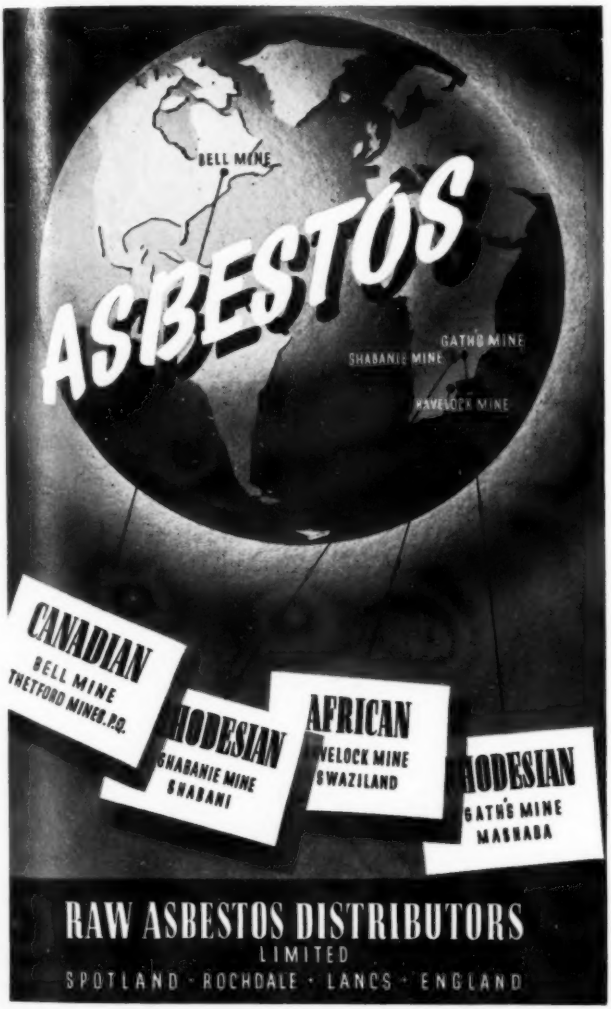
The good news on war fronts has the effect of many war workers trying to get into businesses where their jobs will be fairly secure when the war ends, and the better the news of the war the more decided will this movement become, unless stayed by stringent regulations of the War Manpower Commission.

This movement works harm to plants loaded with war orders, but eases the manpower situation in factories devoted to peacetime products, or products which can be used for both war and peace.

The war, however, is not as near over as many people like to think, and while it is worthwhile to plan for post-war business, there are many lines which will, and must, continue production of implements of war, or products to be used in connection with war equipment.

Undoubtedly the next several months will see a rapid transition from war to peace products in many lines; those industries where reconversion is not required to any great extent (the building industry for instance) may consider themselves lucky as no violent or sudden changes will occur.

A number of asbestos lines are in this category as we all know, and while some adjustment is necessary, the adjustments can be made without too much disturbance of the functioning machinery. Many of the following comments are made with this thought in mind.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ASBESTOS - RAW MATERIAL

"There would be a shortage of spinning fibres" says one of our correspondents, "if American factories spinning asbestos had sufficient labor to operate their equipment at full capacity", and "Continued labor shortage in Industry is affecting consumption of asbestos, but even so, consumption of all grades from all sources is at a very high level."

As a matter of fact asbestos crudes and fibres are still in strong demand for Navy and other Government contracts. Overseas shipments are restricted due to lack of shipping space.

Future trend is reported as good—subject always to manpower situation in asbestos manufacturing plants in this country.

Prices are firm, and present Canadian prices are reported as good until the end of September.

ASBESTOS - MANUFACTURED GOODS

Textiles. The demand for asbestos textiles is still increasing, particularly for Navy use. Lack of labor is still holding actual production below potential production. Prices are steady.

Brake Lining. Delivery on this commodity has improved to some extent with some firms, but demand is increasing rather than otherwise, and no letup is expected until at least two years after the war is over. Prices are reported as firm.

The clutch facing situation is regarded as critical, with three to six months delivery.

May sales of brake linings and clutch facings for domestic consumption increased not only over those for the previous month but also over those for May of last year. Export sales, on the other hand, while recording a considerable increase over last May, declined from the sales made in April of this year. For the first five months of this year sales for export and those for domestic use increased over the same period in 1943.

Asbestos paper. This division of the industry has come back to normal and is likely to stay there until post war construction starts. Both prices and demand are re-

ported as steady.

Asbestos Millboard. Some of the Millboard manufacturers report decreasing demand, with prices remaining at the same levels.

Insulation. High Pressure. Demand in this market is reported by most manufacturers as slightly decreasing, and this is regarded as both the present status and the future trend. Prices are steady.

Insulation. Low Pressure. Demand for Low Pressure Insulations is gradually decreasing, with prices fairly firm. Post-war may show an improvement in demand but a clearly defined trend is not as yet visible.

Asbestos-Cement Products. There has been little, if any, change in the situation with regard to asbestos-cement products during the past month. The demand for shingles and sidings continues well in excess of production, which is still limited by labor shortage. Many producers have large backlogs of orders for shingles, and the future trend on that commodity including siding, is regarded as strong.

Calls for wallboard and corrugated are keeping ahead of production and there is reported some indication of an increasing number of small orders for corrugated while the market for flat sheets continues to be steady.

As to asbestos cement pipes, altho government restrictions are still in effect, there is some activity in the municipal water works field on maintenance and construction that can no longer be deferred.

Prices on all asbestos-cement products are reported as steady.

The above opinions are based on comments received from various men in the Asbestos Industry who are closely in touch with the several markets. Comments and opinions from all readers are welcome.

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Applicants who normally use WPB Form 617 to obtain WPB permission under Conservation Order L-41 to acquire or construct facilities are advised by WPB to follow revised instructions for filing of this form. Copies of the revised instruction sheets are now available at all WPB field offices.

CONTRACTORS AND DISTRIBUTORS PAGE

BUILDING

Construction contracts awarded during May were valued at $144,202,000 in the 37 eastern states, according to F. W. Dodge Corporation. This constituted a drop of 20 per cent from the April total of $179,286,000 and was 39 per cent below May 1943.

Private ownership work was valued at $46,244,000 in May and represented 32 per cent of the month's total as compared with the 26 per cent ratio shown in the preceding month and 18 per cent in May last year. On the basis of dollars, the May volume of construction for private ownership was practically at the April level and 9 per cent greater than the May 1943 total.

All three major types of construction showed declines from the preceding month: non-residential building, down 22 per cent; residential building, down 9 per cent; and, public works and engineering, down 22 per cent. Reductions from May 1943 were evidenced also as follows: non-residential building, off 28 per cent; residential building, off 45 per cent, and public works and engineering, off 42 per cent.

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Post-war. Construction projects contemplated for execution in the postwar period have been reported by F. W. Dodge Corporation to the number of 41,805, with an estimated total cost of $9,581,000—all in the 37 states east of the Rocky Mountains. Forty percent of these projects by number and forty-five per cent by value, have been reported in the design stage.

The largest classification, numerically, of contemplated postwar projects, is private residential building, the number of projects being 19,606 with a total estimated cost of $658,846,000.

This tabulation of prospective constructive projects includes no figures on deferred maintenance and repairs, demand for which is known to be very great, and probably represents the most immediately urgent need.

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

SERIES 40 400 LB. FLANGES.

Pipe Size	Metal Area	1" *	1½" *	2" *	2½" *	3" *	3½" *	4" *
½	.63	1.15	1.62	2.10	2.58	3.06	3.54	4.02
¾	.66	1.20	1.68	2.17	2.66	3.15	3.69	4.13
1	.71	1.28	1.77	2.27	2.77	3.27	3.77	4.27
1¼	.78	1.39	1.90	2.41	2.92	3.43	3.95	4.47
1½	.96	1.68	2.23	2.78	3.33	3.88	4.43	4.98
2	1.03	1.75	2.31	2.87	3.43	3.99	4.55	5.11
2½	1.40	2.11	2.71	3.31	3.92	4.53	5.14	5.75
3	1.70	2.37	2.99	3.61	4.23	4.86	5.49	6.12
3½	1.90	2.60	3.25	3.88	4.53	5.18	5.83	6.49
4	2.20	3.02	3.70	4.38	5.06	5.75	6.44	7.13
5	2.70	3.41	4.14	4.85	5.57	6.28	6.99	7.70
6	3.10	3.88	4.64	5.40	6.16	6.92	7.69	8.46
7	3.60	4.41	5.20	6.00	6.80	7.60	8.40	9.20
8	4.40	5.06	5.87	6.68	7.49	8.31	9.13	9.95
9	4.60	5.65	6.52	7.39	8.26	9.13	10.01	10.89
10	5.40	6.30	7.19	8.09	8.99	9.89	10.79	11.69
12	6.62	7.87	8.86	9.85	10.84	11.84	12.84	13.84
14	8.20	9.38	10.46	11.55	12.64	13.73	14.82	15.91
16	9.60	11.17	12.27	13.37	14.48	15.59	16.70	17.81
18	10.10	12.46	13.66	14.86	16.06	17.26	18.46	19.67
20	12.40	13.99	15.25	16.52	17.79	19.06	20.33	21.60
24	16.00	17.78	19.26	20.74	22.22	23.71	25.20	26.69

*Denotes sq. ft. areas at thickness shown from metal. Use metal area for first layer of blocks.

Third in the series of Area Tables compiled by Elbert R. Sitton.

NEWS OF THE INDUSTRY

BIRTHDAYS

Capt. W. A. Janitch, R. E., Representative in Great Britain for Asbestos Corporation Limited, 6 Maresfield Gardens, London, N. W. 3, England, July 10.

R. S. King, President, Philip Carey Manufacturing Co., Lockland, Cincinnati, Ohio, July 21.

M. T. Rhodes, John M. Watt's Sons, Philadelphia, Pa., July 21.

C. R. Hubbard, Vice President, Garlock Packing Company, Palmyra, N. Y., July 25.

Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Ill., July 25.

George R. Weber, Vice President, Raybestos-Manhattan, Inc., Manheim Pa., July 25.

Frank C. LeRow, Vice President and Treasurer, Asbestos, Asphalt & Insulation Manufacturing Co., Chicago, Ill., July 26.

Lester Kirschbraum, Vice President, The Flintkote Co., New York City, N. Y., July 27.

John Ozuroyich, President, Atlantic Asbestos Corporation, New York City, N. Y., July 31.

S. R. Zimmerman, Vice President Raybestos-Manhattan, Inc., Manheim, Pa., August 1.

Harry H. Heckroth, Vice President, Penn Supply & Metal Corporation, Philadelphia, Pa., August 2.

Arthur C. Sprinkmann, Vice President, Sprinkmann Sons Corporation, Milwaukee, Wis., August 3.

C. W. Gregg, Treasurer and Director, The Flintkote Co., New York City, N. Y., August 3.

J. A. Whittaker, Secretary-Treasurer, Crandall Packing Co., Palmyra, N. Y., August 6.

A. P. Keasbey, President, Robert A. Keasbey Company, New York City, N. Y., August 6.

Paul C. Collopy, President, Acme Asbestos Covg. & Flooring Co., Chicago, Ill., August 8.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Ill., August 11.

O. W. Trumbull, Vice President and General Manager, Greene, Tweed & Co., New York City, N. Y., August 12.

W. L. Steffens, Vice President and Director, The Philip Carey Manufacturing Co., August 13.

Ernest Muehleck, President, Keasbey & Mattison Company, Ambler, Pa., August 15.

G. P. Heppes, Vice President and Director, The Flintkote Co., New York City, N. Y., August 16.

Birthdays—Continued.

Herbert E. Smith, President, United States Rubber Co., New York City, N. Y., August 16.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

SOUTHERN FRICTION EXPANDS

In order to reduce its indebtedness, principally to local banks and officers of the company, and to provide for expansion, the Southern Friction Materials Company of Charlotte, N. C., on June 2nd of this year, concluded the sale of 500-odd shares of Preferred Stock to twenty-four Charlotte businessmen and investors at a price of $87.50 per share, thereby increasing its working capital by approximately $50,000.

Approximately two-thirds of the proceeds is being employed in the debt retirement and the remaining one-third will be used for the building of needed additions to plants to take care of expansion.

Howard Snow
Greystone Studios, Inc.

Prior to this recent financing, very few shares of preferred and common stock have been outstanding but indebtedness to officers and local banks has been high. The bulk of the common stock of the corporation is held by Lt. (j g.) David A. Allen and Howard Snow, President, Mr. Snow still retaining the controlling interest.

The additional financing is purely a defensive move made in preparation for a rainy day.

The present officers of the company are: Howard Snow, President; John C. Camp, Vice President; W. W. Dunkin, Treasurer; W. C. Gilbertson, Secretary. Other key personnel include Hoven Hocutt, Engineer; Sara D. Pickard, Supt. of Research; Eugene Gulledge, Weaving Superintendent; F. L. Johnston, Treating, Finishing and Fabricating Superintendent.

At the moment the activities of the company are the manufacture of woven asbestos brake lining, merchandising of molded brake lining and allied lines and manufacture of *cottonleather* fabric, artificial leather substitute for genuine leather shoe soles. Molded brake lining is also being manufactured in its pilot plant and brake fluid in its laboratory. The company's postwar plans include much activity in the manufacture of these items.

AMERICAN BRAKE SHOE COMPANY. Maurice N. Trainer, first vice president of the American Brake Shoe Company, was elected a director of the Company on May 10th. American Brake Shoe Company is the parent Company of the American Brakeblok Division.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.I.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

SCANDINAVIA ELECTS OFFICERS

The annual meeting of the Scandinavia Belting Company of Newark, N. J., was held on June 1st, at which time the following officers were elected: A. A. Pearson, President (Residence, London, England); G. L. Bishop, Vice President and Asst. Treasurer (Residence, Boston, Mass.); V. A. Spina, Treasurer, (of Newark N. J.); C. B. Whitley, Secretary (of Charlotte, N. C.).

V. A. Spina, formerly assistant treasurer, was made Treasurer and General Manager, thus filling the vacancy created by the death on February 29th of this year, of Frank J. Bowers. Mr. Spina has been connected with the Company for the past twenty-three years.

ASBESTON PLANT WINS "E" FLAG

The Stark Mills plant of United States Rubber Company, located at Hogansville, Ga., was the ninth plant of the company to receive the Army-Navy "E" flag. This plant produces Asbeston yarn and cloth, and other products including tire cord.

The presentation was made on June 20th by Colonel Francis J. Heraty, assistant director of the Officers Candidate School at Fort Benning, Ga.

George M. Tisdale, vice president of the United States Rubber Company congratulated the workers on their achievement in winning the "E" flag, and A. C. Link, factory manager of Stark Mills received the flag for the plant and praised the workers for their production.

Commander William Waldron White, representing the Navy, presented the "E" pins and Gay Swan, chairman of the employees council of the plant, accepted them.

MANHATTAN RUBBER WINS N. A. A. N. AWARD

The Manhattan Rubber Mfg. Division of Raybestos-Manhattan, Inc., received the National Advertising Agencies Network First Award for its "Employee Relations Program."

The Employee Relations Program covers company publicity and other promotional activities dealing with employee and servicemen relations, and includes the company's house organ, Manhattan Service News, War Bond and other drives, Victory Gardens, Christmas Packages to Servicemen, Safety Bulletins, Conservation, Employees' War Exhibits, Absenteeism, etc.

Last year the company received second prize for its Employee Relations Program.

CAROLINA ASBESTOS COMPANY

CUSTOM MANUFACTURERS
OF
ASBESTOS TEXTILE PRODUCTS

CAROLINA ASBESTOS TEXTILES

ARE COMPLETELY ENGINEERED FOR MODERN REQUIREMENTS IN THE MANUFACTURE OF SAFETY-CLOTHING, ELECTRICAL HEATER-CORDS, DRYER-FELTS, PLASTICS AND MANY OTHER PRODUCTS REQUIRING THE USE OF ASBESTOS TEXTILES.

ASBESTOS YARN — CORD — CLOTH
ASBESTOS ROVING — TUBING — WICKING
ASBESTOS CARDED FIBRES — LISTING TAPES
OIL BURNER WICKING

CAROLINA ASBESTOS COMPANY

EXECUTIVE OFFICES:
DAVIDSON, N. C.

FACTORIES:
DAVIDSON, N. C.
MARSHVILLE, N. C.

RIC-WIL WELDED LOCK SEAM

Helical corrugated conduit housing for Ric-wiL Prefabricated Insulated Pipe Units is now furnished with a reinforcing full welded lock seam extending spirally the entire length of each section. See illustration at left. Automatic machine weld is made at the factory before galvanizing, assuring a permanently pressure tight, waterproof structure.

Further information on this welded lock seam and also on the Prefabricated Insulated Pipe Units can be obtained by writing The Ric-wiL Company, 1572 Union Commerce Building, Cleveland, Ohio.

PLANT EARNS ARMY-NAVY "E"

The unprecedented feat of increasing production 210 per cent over normal plant capacity has earned Plant Rubber & Asbestos Works of San Francisco the Army-Navy "E" Flag with Star for continued meritorious production performance and excellence of product.

To accomplish this notable industrial performance Plant Rubber & Asbestos Works has been in continuous operation, twenty-four hours a day, seven days a week, including holidays, since December 7, 1941, turning out Precision-Molded 85% Magnesia, light-weight heat insulating material.

Plant Rubber & Asbestos Works employees witnessed the presentation of the "E" Flag on June 14th, when Lt. (j. g.) W. M. Harmon, U. S. N. R., of the Technical Section, Office of Inspector of Naval Material, turned the Flag over to R. H. Chase, Vice President and General Manager, who presented it to the Plant employees. Chairman of the Ceremonies was S. A. Abrahams, Factories Manager.

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W. D. VAN ARNAM, General Sales Manager of the Filtration and Filler Department of Johns-Manville, and a recognized authority on filtration and filter aid problems, was elected President of The Laundry and Cleaners Allied Trades Association at its recently concluded annual convention.

Mr. Van Arnam graduated from Cornell University in 1916. In 1922 he joined the Celite Company which was merged with Johns-Manville in 1928, which gives Mr. Van Arnam almost one-quarter of a century of experience in his field.

DEATH OF H. E. MANVILLE

H. Edward Manville, former chairman of the Board of Johns-Manville Corporation, passed away on June 27th, at his estate, Hi-Esmaro, Pleasantville, N. Y. He was 72 years old.

Mr. Manville was born on February 6th, 1872, at Neenah, Wis., the son of Charles B. Manville, founder of the Manville Covering Company, one of the predecessor companies of Johns-Manville Corporation. He was the brother of T. F. Manville, President of H. W. Johns-Manville Company, and succeeded to the Presidency of that Company at the death T. F. Manville, in 1925.

H. E. Manville resigned as Chairman of the Board of Johns-Manville Corporation in September 1939, because of ill health, having at that time completed 50 years of service with the company. He had served in many capacities, including Secretary, and Chairman of the Executive Committee. Mr. Manville had been virtually an invalid since breaking his hip eighteen months ago.

Mr. Manville was a member of many local clubs and had, while his health permitted, been affiliated with a number of businesses and philanthropic organizations and movements.

He is survived by his wife, Mrs. H. Estelle Romaine Manville, his daughter, Countess Estelle Bernadotte of Wisburg, of Stockholm, Sweden, and a son, First Lieut. H. Edward Manville, Jr., with the Army Air Forces.

U. S. RUBBER--Expanding for War Production

To meet increased war production demands, United States Rubber Company has established new manufacturing facilities in seven cities scattered in six eastern and middlewestern states. In addition, the company is expanding present plant facilities at four of the 38 plants which it now operates.

The new manufacturing operations include production of rayon cord at Scottsville, Va.,; Signal Corps wire at Lowell, Mass.; Army raincoats at Ligonier, Ind.; special military equipment at Worcester, Mass.; special invasion equipment at Manchester, N. H. and Grand Rapids, Mich; asbestos and footwear parts at Beacon Falls, Conn.

A new plant at Hogansville, Ga., built last year, is being doubled in size to permit expanded production of lightweight asbeston yarn needed for fire-fighting suits and other vital war items.

Tire plants are being expanded at Chicopee Falls, Mass., and Los Angeles, Calif. At Eau Claire, Wis., the company's tire plant is being reconverted from the production of small arms ammunition and greatly enlarged.

W. H. FEHRS PROMOTED

W. H. Fehrs has been appointed Assistant to the President of the Union Asbestos & Rubber Company in charge of Railroad Sales. He will be located at the Company's main offices in Chicago.

W. H. Fehrs

Mr. Fehrs joined Union Asbestos & Rubber Company in May, 1928, in their Railroad Sales Department. Previous to that time he was with the Union Pacific R. R. at Omaha for 12 years, most of that period in the Mechanical Engineering Department.

In 1932 he was made Manager of Automotive Sales for Union Asbestos & Rubber Company. In 1939 he was appointed Assistant to the Vice President and later that year was made Plant Manager of the company's Cicero plant, which position he held until his recent appointment.

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IS "FULL" EMPLOYMENT ATTAINABLE?" On April 28, Arthur A. Hood, Director of Dealer Relations, Johns-Manville Corporation, spoke on the above subject at a meeting of the New York Sales Managers' Club in New York City.

The address was later published in the magazine "Vital Speeches of the Day" (June 15th issue). It, naturally, discusses the subject from the Sales Manager's viewpoint, but everyone interested in post-war employment and post-war **selling** will find it most interesting and, very helpful. Vital Statistics is published by City News Publishing Co., 33 W. 42nd St., New York City and presumably a copy of their June 15th issue can be obtained from the publishers.

RAYMOND C. PARLETT, Staff Manager on insulation, of Johns-Manville, with headquarters in New York, at a luncheon given by his business associates recently, was inducted into the J-M Century Club, having completed 25 years of service with the Company.

Mr. Parlett assisted in developing and operating the first commercial heat insulation conductivity testing equipment in the United States. This electrical method of testing provides accurate determination of heat losses and other fundamental data for the scientific study of insulating material. He is a member of the American Society of Mechanical Engineers and Pi Tau Sigma (honorary).

FRED V. TABBERT, general superintendent of the Mobile, Ala., plant of The Ruberoid Co., died on Monday, June 12, after an illness of several weeks. Mr. Tabbert, who was 66 years old, had been associated with The Ruberoid Co. for twenty years. He is survived by his wife and several children.

H. K. SHERRY, Vice President of Canadian Johns-Manville Company, Ltd., at Asbestos, Quebec, was inducted into the J-M Quarter Century Club on June 8th, upon the completion of 25 years of service with the Company. Fifteen other employees at the company's asbestos mine and mill were inducted into the club at the same time.

Mr. Sherry is directly in charge of the J-M mine at Asbestos, and also directs the operations of their large mill at the same location, and of the company-operated Danville and Asbestos Railway.

He joined Canadian Johns-Manville in 1919 as superintendent of drilling and blasting. He is a member of the executive committee of the Canadian Institute of Mining and Metallurgy and a member of the American Institute of Mining and Metallurgical Engineers.

"HOW THE ROOFING INDUSTRY DELIVERED THE GOODS", by C. J. Dunham of The Ruberoid Co., appeared in the June 1st number of Wood Construction, published at Xenia, Ohio.

This is a very interesting summing up of the work of the roofing industry during the past war years, explaining how the asbestos cement products manufacturers were able to carry on and supply the needs of the building industry and substitute in many cases for scarce or critical materials.

A somewhat similar article by the same author appears in the American Roofer for June, the title being "Delivering the Goods In Wartime."

BRADLEY DEWEY, Rubber Director, received the honorary degree of doctor of science, at the commencement exercises of the University of Akron held on June 4th. Col. Dewey, who is well known to many of our readers, was the guest speaker at the exercises, his topic being "Synthetic Rubber and the University of Akron—Now and in the Future."

UNITED STATES RUBBER CO. The Board of Directors on July 5th declared a dividend of $2.00 a share on the 8% noncumulative first preferred stock, from net earnings of the company during the year 1944. Also a dividend of 50c a share on the common stock, from earned surplus as of December 31, 1943.

Both dividends are payable September 8 to stockholders of record August 25.

THE CANADIAN JOHNS-MANVILLE CO., LTD., at Asbestos, Quebec, has just announced the addition to its staff of Frank Buckle as underground mining superintendent.

In order to provide its employees with a week's vacation with pay, the Company shut down operations the week of June 25th.

THE CANADIAN JOHNS-MANVILLE CO., LTD., on July 15th, played hosts to thirty members (and guests) of the Thetford Mines branch of the Canadian Institute of Mining and Metallurgy. After a banquet and presentation of a technical paper, the feature of the day was a conducted tour thru the plant.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Method of Saturating Felted Fibrous Material. No. 2,346,947. Granted on April 18, 1944 to Raymond F Schlaanstine, Kennett Square, Pa., assignor to Hercules Powder Co., Wilmington, Del. Application March 25, 1944. Serial No. 385,133.

In a process for producing asphalt-saturated fibrous felts in which felted fibrous material selected from the group consisting of cellulose, wool, and asbestos fibers is placed in a bath of hot molten asphalt until impregnated thereby, then removed and permitted to cool to bring about solidification of the asphalt absorbed thereby, the improvement which consists in impregnating and saturating said felted fibrous material in a molten bath prepared by combining and melting asphaltic material substantially free of volatile material with from about 1% to about 10% of a lower aliphatic monohydric alcohol ester of a rosin acid selected from the group consisting of abietic and hydrogenated abietic acids, the percentages being by weight of the resulting blend, to increase the fluidity and saturation speed of the asphaltic material, whereby more efficient saturation of the felted material is obtained without causing embrittlement of the cold asphalt such as that caused by addition of rosin and like fluxes or causing undue softening such as that caused by addition of oil, fats and the like.

Heat Insulation Material. No. 2,348,898. Granted on May 16, 1944, to Harold W. Greider and R. A. MacArthur, Wyoming, Ohio. Assignors to Philip Carey Mfg. Company. Original application August 16, 1938. Serial No. 225,140. Divided and this application December 10, 1940. Serial No. 369,432.

A method of manufacturing molded heat insulation material which comprises heating magnesium bicarbonate solution to precipitate normal magnesium carbonate, removing part of the magnesium carbonate in the mother liquor, separating the normal magnesium carbonate from the mother liquor, heating the separated mother liquor sufficiently to convert magnesium bicarbonate therein to basic magnesium carbonate making an aqueous slurry comprising normal magnesium carbonate produced as aforesaid and basic magnesium carbonate produced as aforesaid, molding the slurry to form a molded article and heating the molded article prior to converting, drying thereof sufficiently to convert normal magnesium carbonate therein into basic magnesium carbonate.

Stay at Your Battle Stations!

MANAGEMENT • LABOR

—The 5th War Loan Drive is still on. July 29th is the last payday in the drive.

The U. S. Treasury has set the overall goal at $16,000,000,000-$6,000,000,000 from individuals alone. This is the biggest sum ever asked of the American people—*and it must be raised!*

Keep fighting. Tighten up your 5th War Loan Drive organization. Step up your solicitation tempo. Drive! Drive!! Drive!!! Hit your Plant Quota's 100% mark with a bang that'll proclaim to all the world that the U. S. Home Front is solidly in back of the Fighting Front.

Need help? Need ideas? Call on the Chairman of your War Finance Committee.

Here's the Quota Plan:

1. Plant quotas are to be established on the basis of an *average* $100 *cash* (not maturity value) purchase per employee.
2. Regular Payroll Savings deductions made during the drive accounting period will be credited toward the plant quota.
3. Employees are expected to contribute toward raising the cash quota by buying extra 5th War Loan Bonds: 1—Outright by cash. 2—By extra installment deductions. 3—By extra installment deductions plus cash.

Example: JOHN DOE Mfg. Co. —1,000 Employees
1,000 employees x $100=$100,000 Cash Quota

Regular Payroll deductions during the eight weekly payroll Accounting Periods of June and July. 30,000

$70,000 (to be raised by sales of extra Bonds)

BACK THE ATTACK—SELL MORE THAN BEFORE

The Treasury Department acknowledges with appreciation the publication of this message by

"ASBESTOS", Philadelphia, Pa.

This is an official U.S. Treasury adv.—prepared under the auspices of Treasury Department and War Adv. Council

Gasket. No. 2,349,235. Granted on May 23, 1944 to Wilburn F. Bernstein and Stephen M. Lillis, Chicago, Ill. Assignors to Victor Mfg. & Gasket Company, Chicago, Ill. Application July 16, 1941. Serial No. 402,716. Description upon request. (Not asbestos).

Building Structure (prefabricated). No. 2,349,358. Granted on May 23, 1944 to Robert W. McLaughlin, Jr., Bedford, N. Y. Assignor to American Houses, Inc., New York. Application August 13, 1941. Serial No. 406,572. Description upon request. (Not necessarily asbestos.)

Coated Cement Product. No. 2,350,030. Granted on May 30, 1944, to Harold W. Greider and William T. Young, Springdale, Ohio, assignors to Philip Carey Mfg. Company. Application December 29, 1941. Serial No. 424,788.

A method of coating an hydraulic cement product which comprises applying the product as a coating an aqueous composition that contains at least 30% (by weight of the dried solids in the composition) of soluble silicate and that contains at least about 10% of acidic kaolinitic type clay and drying and heat curing the coating said heat curing of the coating being carried out at a temperature between about 500° F. to insolubilize soluble silicate contained therein.

PUBLICATIONS AVAILABLE

The Asbestos Factbook (2nd Edition)—Much information about asbestos, in compact form—10c per copy.

Canadian Chrysotile Asbestos Classification (reprint)—25c per copy, or 15c ea. in quantities of 10 or more.

Twelve Estimating Tables with Chart. Convenient in figuring flange fittings and other areas—$1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks)—30c per copy postpaid.

Processing Asbestos Fibres (Reprint)—of interest to textile plant superintendents or foremen—25c per copy.

Tests for Cotton Content (Reprint from May 1944 "ASBESTOS" 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. Reprinted from Page 27, February 1944 "ASBESTOS". 20c each

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Especially interesting to school children—$1.00 per copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia, 30, Pa.

. . . —

Asbestos-lined waste baskets are advertised by Leipzig & Lippe, 1166 Broadway, New York City. They retail at $1.00 each.

THIS and THAT

A "Green Thumb" prize contest for victory gardeners is being sponsored by The National Victory Garden Institute, Inc., 598 Madison Ave., New York 22, N. Y., with $1,000 war bond as national grand prize in the adult division and a $500 bond in the children's division. Other trophy prizes will also be awarded. Those asbestos firms who are encouraging their employees to become victory gardeners should write the Institute for full details.

. . . —

In the new refinery installation of the Union Oil Company in Southern California, which covers more than 30 acres, a total of almost $1,000,000 worth of J-M materials (including labor for installation) was used. Of course not all of this was asbestos material—Sil-O-Cel, Insulating Brick, Rock Cork Insulation for cold liquids, Insulkote, and other J-M products had their share. Asbestos products used included insulation, gaskets, asbestos tape and rope and asbestos cement pipe.

. . . —

In an effort to move idle construction and mining equipment into essential use, the Office of Price Administration on June 9th issued Amendment 117 to MPR 136, which revises ceiling prices on power shovels, cranes, draglines, back hoes, motor graders and crawler tractors manufactured after 1938. Further information obtainable from Office of Price Administration, 350 Fifth Ave., New York 1, N. Y.

. . . —

At the Semi-Annual Meeting of the American Society of Heating & Ventilating Engineers, held at Grand Rapids, Mich., June 19th and 20th, the members voted that the Society give "full support to the Government in the National Fuel Efficiency Program to expedite the war effort by helping to prevent the needless waste of heat and power." A Panel Discussion on Fuel Conservation, mainly devoted to fuel utilization, was the feature of the meeting.

CURRENT RANGE OF PRICE

As of July 10, 1944

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)		
Group No. 1 (Crude No. 1)	$650.00	to	$750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00	to	385.00
Group No. 3 (Spinning or Textile Fibre)	124.00	to	233.50
Group No. 4 (Shingle Fibre)	62.50	to	82.50
Group No. 5 (Paper Fibre)	44.00	to	49.50
Group No. 6 (Waste, Stucco or Plaster)	33.00	to	34.00
Group No. 7 (Refuse or Shorts)	14.50	to	29.50

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.		
Shingle Stock Fibres	$62.50	to	$65.50
Paper Stock Fibres	44.00	to	54.00
Waste			33.00
Shorts	14.50	to	28.50
Floats			19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		June 1944		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	40½	46⅝	45¼
Asbestos Corp. (Com.)	np	19½	23¼	22
Celotex (Com.)	np	11⅝	15⅞	14⅞
Celotex (Pfd.)	20	17¼	18¾	18¾
Certainteed (Com.)	1	5½	9	8⅜
Certainteed (Pfd.)	100	62½	87	84⅝
Flintkote (Com.)	np	21½	26	25¾
Flintkote (Pfd.)	np	105	107	107
Johns-Manville (Com.)	np	97⅞	100	97¾
Raybestos-Manhattan (Com.)	np	29¾	32¾	32¾
Ruberoid (Com.)	np	29	31½	31
Thermoid (Com.)	1	7⅝	9¾	9½
Thermoid (Pfd.)	10	44¾	47½	47
U. S. Gypsum (Com.)	20	74⅛	88	86
U. S. Gypsum (Pfd.)	100	172½	175	174¼
U. S. Rubber (Com.)	10	47½	53½	52½
U. S. Rubber (Pfd.)	100	134½	138	137

85% MAGNESIA . . . pipe coverings, blocks and cement. For temperatures up to 600° F.

EHRET'S ENDURO . . . Used with 85% Magnesia for temperatures from 600° to 2000° F. Pipe coverings, blocks and cement.

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★

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